AMENDMENTS TO THE CLAIMS

For the convenience of the Examiner, all claims have been presented even though no amendments have been made. The claims are as follows:

What is claimed is:

1. (Currently Amended) A method for logging changes that are made during a reorganization process, comprising:

reading each record of a source file associated with at least one of a plurality of objects;

writing each record to a destination file;

identifying changes to the plurality of objects that are made during a reorganization process;

for each change, determining whether the change affects an object being reorganized;

creating, during the reorganization process, a log file comprising log records, wherein the log records are associated with only those changes that are determined to affect an object being reorganized;

reading each log record of the log file;

processing each record of the log file to effect the associated change to the destination file; and

replacing the source file with the destination file.

- 2. **(Original)** A method according to claim 1 wherein the source file is an index file.
- 3. (Original) A method according to claim 1 wherein the source file is a data file.
- 4. **(Original)** A method according to claim 1 wherein the step of creating a log file is performed in accordance with instructions of a DBMS log routine.
 - 5. (Original) A method according to claim 4 wherein the log file contains a

subset of all records processed by the DBMS log routine.

- 6. **(Original)** A method according to claim 4 wherein the log file records are selected based on a program call established by a reorganization utility.
- 7. **(Original)** A method according to claim 6 wherein the program call is removed prior to termination of the reorganization utility.
- 8. (Previously Presented) A method for logging changes by a database management system, comprising:

identifying changes to a plurality of objects that are made during a reorganization process;

creating a log record based on a particular change;

determining whether the particular change affects an object being reorganized; storing the log record in a first log file recording selected changes only if the particular change is determined to affect an object being reorganized; and

storing the log record in a second log file regardless of whether the change is determined to affect an object being reorganized.

- 9. **(Original)** A method according to claim 8 wherein the first log file resides in virtual storage.
- 10. **(Original)** A method according to claim 8 wherein the first log file resides in dataspace.
- 11. **(Previously Presented)** A method according to claim 8 wherein the first log file resides in hyperspace.
- 12. (Original) A method according to claim 8 wherein the first log file resides in DASD.

13. (Currently Amended) An apparatus for logging changes that are made during a reorganization process, comprising:

means for reading each record of a source file associated with at least one of a plurality of objects;

means for writing each record to a destination file;

means for identifying changes to the plurality of objects that are made during a reorganization process;

means for determining whether each change affects an object being reorganized;

means for creating, during the reorganization process, a log file comprising log records, wherein the log records are associated with only those changes that are determined to affect an object being reorganized;

means for reading each log record of the log file;

means for processing each record of the log file to effect the associated change to the destination file; and

means for replacing the source file with the destination file.

- 14. (Original) An apparatus according to claim 13 wherein the source file is an index file.
- 15. (Original) An apparatus according to claim 13 wherein the source file is a data file.
- 16. **(Original)** An apparatus according to claim 13 wherein the log file is created in accordance with instructions of a DBMS log routine.
- 17. **(Original)** An apparatus according to claim 16 wherein the log file contains a subset of all records processed by the DBMS log routine.
- 18. **(Original)** An apparatus according to claim 16 wherein the log file records are selected based on a program call established by a reorganization utility.

- 19. (Original) An apparatus according to claim 18 wherein the program call is removed prior to termination of the reorganization utility.
- 20. (Currently Amended) An apparatus for logging changes that are made during a reorganization process, comprising:

a processor;

a memory coupled to said processor and storing a program to control the operation of said processor;

the processor operative with the program in the memory to:

read each record of a source file associated with at least one of a plurality of objects;

write each record to a destination file;

identify changes to the plurality of objects that are made during a reorganization process;

for each change, determine whether the change affects an object being reorganized;

create <u>during the reorganization process</u> a log file comprising log records, wherein the log records are associated with only those changes that are determined to affect an object being reorganized;

read each log record of the log file;

process each record of the log file to effect the associated change to the destination file; and

replace the source file with the destination file.

- 21. (Original) An apparatus according to claim 20 wherein the source file is an index file.
- 22. (Previously Presented) An apparatus according to claim 20 wherein the source file is a data file.
- 23. (Original) An apparatus according to claim 20 wherein the processor is further operative with the program in the memory to create the log file in accordance with

instructions of a DBMS log routine.

- 24. **(Original)** An apparatus according to claim 23 wherein the log file contains a subset of all records processed by the DBMS log routine.
- 25. **(Original)** An apparatus according to claim 20 wherein the processor is further operative with the program in the memory to select the log file records based on a program call established by a reorganization utility.
- 26. (Original) An apparatus according to claim 23 wherein the processor is further operative with the program in the memory to remove the program call prior to termination of the reorganization utility.
- 27. (Currently Amended) A computer-readable storage medium encoded with processing instructions for implementing a method for logging changes that are made during a reorganization process, the processing instructions for directing a computer to perform the steps of:

reading each record of a source file associated with at least one of a plurality of objects;

writing each record to a destination file;

identifying changes to the plurality of objects that are made during a reorganization process;

for each change, determining whether the change affects an object being reorganized;

creating, during the reorganization process, a log file comprising log records, wherein the log records are associated with only those changes that are determined to affect an object being reorganized;

reading each log record of the log file;

processing each record of the log file to effect the associated change to the destination file; and replacing the source file with the destination file.

28. (Currently Amended) A method for logging changes that are made during a reorganization process, comprising:

creating an empty destination file;

establishing a program call to process log records;

reading each record of a source file associated with at least one of a plurality of objects;

writing each record to the destination file;

identifying changes to the plurality of objects that are made during a reorganization process;

for each change, determining whether the change affects an object being reorganized;

employing the established program call to create <u>during the reorganization</u> <u>process</u> a log file comprising log records, wherein the log records are associated with only those changes that are determined to affect an object being reorganized;

removing the established program call;

reading each log record of the log file;

processing each record of the log file to effect the associated change to the destination file; and

replacing the source file with the destination file.

- 29. **(Previously Presented)** A method according to claim 28 wherein the source file is an index file.
- 30. **(Previously Presented)** A method according to claim 28 wherein the source file is a data file.

31. (Currently Amended) An apparatus for logging changes that are made during a reorganization process, comprising:

means for creating an empty destination file;

means for establishing a program call to process log records;

means for reading each record of a source file associated with at least one of a plurality of objects;

means for writing each record to the destination file;

mean for identifying changes to the plurality of objects that are made during a reorganization process;

means for determining whether each change affects an object being reorganized;

means for employing the established program call to create <u>during the</u> <u>reorganization process</u> a log file comprising log records, wherein the log records are associated with only those changes that are determined to affect an object being reorganized;

means for removing the established program call;

means for reading each log record of the log file;

means for processing each record of the log file to effect the associated change to the destination file; and

means for replacing the source file with the destination file.

- 32. **(Previously Presented)** An apparatus according to claim 31 wherein the source file is an index file.
- 33. (Previously Presented) An apparatus according to claim 31 wherein the source file is a data file.

34. (Currently Amended) An apparatus for logging changes that are made during a reorganization process, comprising:

a processor;

a memory coupled to said processor and storing a program to control the operation of said processor;

the processor operative with the program in the memory to:

create an empty destination file;

establish a program call to process log records;

read each record of a source file associated with at least one of a plurality of objects;

write each record to the destination file;

identify changes to the plurality of objects that are made during a reorganization process;

for each change, determine whether the change affects an object being reorganized;

employ the established program call to create <u>during the</u> <u>reorganization process</u> a log file comprising log records, wherein the log records are associated with only those changes that are determined to affect an object being reorganized;

remove the established program call;

read each log record of the log file;

process each record of the log file to effect the associated change to the destination file; and

replace the source file with the destination file.

- 35. (Previously Presented) An apparatus according to claim 34 wherein the source file is an index file.
- 36. (Previously Presented) An apparatus according to claim 34 wherein the source file is a data file.

37. (Currently Amended) A computer-readable storage medium encoded with processing instructions for implementing a method for logging changes that are made during a reorganization process, the processing instructions for directing a computer to perform the steps of:

creating an empty destination file;

establishing a program call to process log records;

reading each record of a source file associated with at least one of a plurality of objects;

writing each record to the destination file;

identifying changes to the plurality of objects that are made during a reorganization process;

for each change, determining whether the change affects an object being reorganized;

employing the established program call to create <u>during the reorganization</u> <u>process</u> a log file comprising log records, wherein the log records are associated with only those changes that are determined to affect an object being reorganized;

removing the established program call;

reading each log record of the log file;

processing each record of the log file to effect the associated change to the destination file; and

replacing the source file with the destination file.